TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-09-21-01**	**Date: 23-09-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.	
Agency	:	Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.	
Customer Reference	:	BBMP/EE/BTP/WO/223/206-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	21-09-2017	
Sample ID No	:	2017-09-21-01/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	21-09-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.00	4.99
4	Average percentage	%	5.0	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Lab ID : **CP-RW-2017-09-21-01** **Date: 23-09-2017**

Sample ID : **2017-09-21-01/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.4	35.6	26-38
0.3	46	352	74.1	25.9	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	67	72	15.1	84.9	70-88
4.75	117	189	39.7	60.3	53-71
2.36	78	267	56.1	43.9	42-58
1.18	31	298	62.6	37.4	34-48
0.6	9	307	64.5	35.5	26-38
0.3	43	350	73.5	26.5	18-28
0.15	48	398	83.6	16.4	12-20
0.075	47	445	93.5	6.5	4-10

Note:

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Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-08-24-01** **Date: 27-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.
Agency	:	Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/223/206-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2017
Sample ID No	:	2017-08-24-01-01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	24-08-2017

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

Note:-
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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-08-24-01** **Date: 27-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.
Agency	:	Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/223/206-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2017
Sample ID No	:	2017-08-24-01-01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	24-08-2017

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
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Technical Manager

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-08-24-01** **Date: 27-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.
Agency	:	Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/223/206-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2017
Sample ID No	:	2017-08-24-01-01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	24-08-2017

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

Note:

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All information furnished by Customer/Representative
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-08-24-01** **Date: 26-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.
Agency	:	Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/223/206-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2017
Sample ID No	:	2017-08-24-01-01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	24-08-2017
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

Note:
The results pertain to the samples received and tested.
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR SDBC
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-09-25-01	**Date: 26-09-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.	
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092	
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-09-2017	
Sample ID No	:	2017-09-25-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	25-09-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.38	4.99
4	Average percentage	%	5.2	

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Authorized Signatory
Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Lab ID : **CP-RW-2017-09-25-01** **Date: 26-09-2017**

Sample ID No : **2017-09-25-01/01**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	24	24	5.05	94.9	90-100
4.75	211	235	49.47	50.5	35-51
2.36	59	294	61.89	38.1	24-39
1.18	52	346	72.84	27.2	15-30
0.3	71	417	87.79	12.2	9-19
0.075	35	452	95.16	4.8	3-8
PAN	23	475	100.00	0.0	0

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	24	24	5.04	95.0	90-100
4.75	217	241	50.63	49.4	35-51
2.36	57	298	62.61	37.4	24-39
1.18	49	347	72.90	27.1	15-30
0.3	79	426	89.50	10.5	9-19
0.075	32	458	96.22	3.8	3-8
PAN	18	476	100.00	0.0	0

Note:-

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Technical Manager

CIVIL PRO ★ Sig..... Date..... BANGALORE

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2017-08-29-01** **Date: 01-09-2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.

Agency : Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092

Customer Reference : BBMP/EE/BTP/WO/223/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-2017

Sample ID No : 2017-08-29-01-01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 29-08-2017

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	97.5	Minimum Retained Coating 95%
2	97.0	3.0		
3	97.5	2.5		

Note:
The results pertain to the samples received and tested.
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****End of Report****

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-08-29-01** **Date: 01-09-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-2017
Sample ID No	:	2017-08-29-01-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-08-2017

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.37	10.45	8.2KN(min)
2	Marshal flow at 60°C, mm	3.28	3.31	2-4
3	Percent air Voids	4.51	4.65	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.67	13.73	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.53	69.6	65-75
6	Density, g/cc	2.26	2.25	–

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-08-29-01** **Date: 01-09-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-2017
Sample ID No	:	2017-08-29-01-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	29-08-2017

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.5	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.4		
Strength	Aggregate Impact Value	23.6	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.56	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.25	Maximum 2%	IS:2386 Part III

Note:

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Authorized Signatory
Technical Manager

Sig.....
Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-08-29-01** **Date: 31-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-2017
Sample ID No	:	2017-08-29-01-01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	29-08-2017
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-
13.2	0	0	0	100	100
9.5	415	415	8.30	91.70	90-100
4.75	2182	2597	51.94	48.06	35-51
2.36	1045	3642	72.84	27.16	24-39
1.18	518	4160	83.20	16.80	15-30
0.3	329	4489	89.78	10.22	9-19
0.075	289	4778	95.56	4.44	3-8
PAN	222	5000	100.00	0.00	0

Note:-

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All information furnished by Customer/Representative
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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-08-12-01**	**Date: 14-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.	
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092	
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	12-08-2017	
Sample ID No	:	2017-08-12-01/01	
Type of Mix	:	BM (Dense Bituminous Macadam)	
Date of test	:	13-08-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	510	507
2	Weight of the sample After extraction	B	489	486
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.12	4.14
4	Average percentage	%	4.13	

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Lab ID : **CP-RW-2017-08-12-01** **Date: 14-08-2017**

Sample ID No : **2017-08-12-01/01**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 489 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	16	16	3.3	96.7	90-100
19	68	84	17.2	82.8	71-95
13.2	115	199	40.7	59.3	56-80
4.75	44	243	49.7	50.3	38-54
2.36	65	308	63.0	37.0	28-42
0.3	82	390	79.8	20.2	7-21
0.075	68	458	93.7	6.3	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 486 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	16	16	3.3	96.7	90-100
19	68	84	17.3	82.7	71-95
13.2	101	185	38.1	61.9	56-80
4.75	88	273	56.2	43.8	38-54
2.36	43	316	65.0	35.0	28-42
0.3	72	388	79.8	20.2	7-21
0.075	72	460	94.7	5.3	2-8

Note:-

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-08-21-01** **Date: 24-08-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-17
Sample ID No	:	2017-08-21-01-01
Type of Mix	:	BM(Bitumnous Macadam)
Date of test	:	21-08-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-6
1	98.5	1.5	98.5	Minimum Retained Coating 95%
2	99.0	1.0		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2017-08-21-01** **Date: 24-08-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-17
Sample ID No	:	2017-08-21-01-01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	21-08-17

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

Note:

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-08-21-01** **Date: 23-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-2017
Sample ID No	:	2017-08-21-01-01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		21-08-2017
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-08-14-01** **Date: 06-09-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	14-08-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-08-14-01** **Date: 16-08-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-08-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-08-14-01** **Date: 16-08-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Drilling Borewells in Ward No.09, 10 & 11 of Vidyaranyapura Sub Division of Byatrayanapura Division.
Agency	:	Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P) Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/223/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-17
Sample ID No	:	2017-08-14-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	14-08-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.1%	
Combined Flakiness and Elongation Index for WMM	24.7%	

Note:-
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-08-16-02** **Date: 18-08-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.
Agency	:	Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/223/206-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2017
Sample ID No	:	2017-08-16-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	16-08-2017

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-07-05** **Date: 09/08/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.

Agency : Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/223/206-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-2017

Sample ID No : 2017-08-07-05/09

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	02/08/2017	09/08/2017	149.86 X 150.32 X 150.4	22527	8.152	385.2	17.1	17.1
2	M20 Concrete	M20	02/08/2017	09/08/2017	150.28 X 150.79 X 149.75	22661	8.143	383.0	16.9	
3	M20 Concrete	M20	02/08/2017	09/08/2017	148.99 X 150.78 X 150.95	22465	8.142	388.6	17.3	

Note:

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Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-07-05** **Date: 30/08/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.

Agency : Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/223/206-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-2017

Sample ID No : 2017-08-07-05/10

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	02/08/2017	30/08/2017	149.08 X 150.36 X 150.36	22416	8.155	497.6	22.2	22.3
2	M20 Concrete	M20	02/08/2017	30/08/2017	150.18 X 150.23 X 149.33	22562	8.135	489.6	21.7	
3	M20 Concrete	M20	02/08/2017	30/08/2017	150.35 X 149.26 X 150.39	22441	8.168	518.4	23.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-07-05** **Date: 09/08/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.

Agency : Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/223/206-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-2017

Sample ID No : 2017-08-07-05/07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	02/08/2017	09/08/2017	149.22 X 150.13 X 149.94	22402	8.246	387.6	17.3	17.0
2	M20 Concrete	M20	02/08/2017	09/08/2017	150.83 X 150.69 X 149.88	22729	8.145	384.1	16.9	
3	M20 Concrete	M20	02/08/2017	09/08/2017	148.68 X 150.56 X 150.44	22385	8.249	378.3	16.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-08-07-05** **Date: 30/08/2017**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and drilling borewells in Ward no.09,10 and 11 of Vidyaranyapura Sub division of Byatarayapura Division.

Agency : Alankar.K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara(P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/223/206-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-2017

Sample ID No : 2017-08-07-05/08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	02/08/2017	30/08/2017	150.26 X 150.33 X 151.04	22589	8.242	487.9	21.6	22.2
2	M20 Concrete	M20	02/08/2017	30/08/2017	150.23 X 150.99 X 149.77	22683	8.253	503.6	22.2	
3	M20 Concrete	M20	02/08/2017	30/08/2017	148.61 X 150.16 X 150.42	22315	8.272	506.6	22.7	

Note:

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